



( CD-224E-R IDE TYPE )

( ± 0.4 )  
( Unit : mm )

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## 24x CD-ROM

### 24x-Speed Slim CD-ROM DRIVE

### CD-224E-R (IDE)

### CD-224S-R (SATA)

- Standard half inch design
- Horizontal and vertical mounting for most system configurations

	CD-224E-R	CD-224S-R
Read speed	CD-ROM 24x ( CAV ) CD-R/RW 24x ( CAV ) CD-DA ( DAE ) 20x ( CAV ) Play Audio *1 4x ( CLV ) Video CD *1 20x ( CAV )	
Disc Diameter	12cm, 8cm	
Interface	ATA/ATAPI ( IDE )	Serial ATA ( SATA )
Data Transfer Rate	Programmed I/O ( PIO ) 16.7MB/s max. ( PIO mode 4 ) Burst DMA 16.7MB/s max. ( Multi Word DMA mode 2 ) Burst Ultra DMA 33.3MB/s max. ( Ultra DMA mode 2 )	
Average Random Access Time	110ms typ. Average ( CD-ROM, 24x )	
Data Buffer	256KB	
Loading Mechanism	Drawer Type	
Environment Condition	Ambient Temperatures Operating : 5 to 55°C Relative Humidities Operating : 8 to 80% ( non-condensing ) *2	
Power Requirements	DC+5V ±5%	
Current Consumption	Standby/Sleep ; 20mA ( Average current max ) During starting/seek ; 1200mA ( Peak current max )	
MTBF	60,000POH ( 10% duty )	
Safety Standard	Approved by UL, CSA, TÜV CE and BSMI	
Dimensions	128.0W X 12.7H X 129.4D ( mm )	
Mass (Weight)	157g or less	
RoHS Directive	Complied	

#### Remarks

Please check the specification sheets for detailed conditions and other information.

\*1 Playback mode

\*2 The maximum wet-bulb temp. is 29.4°C or less

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